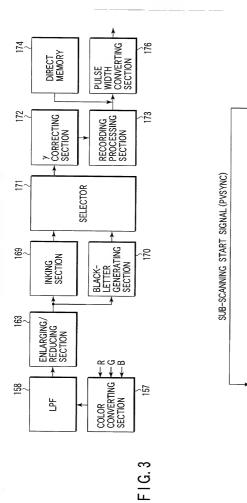


CONTRACT DISTORT

F1G.2



F1G.4

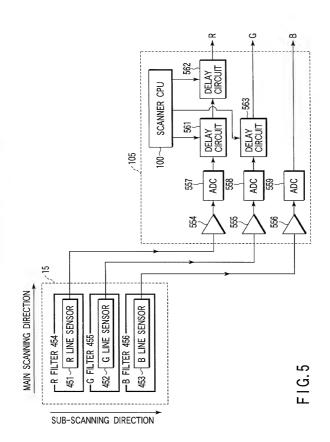
PRINTER UNIT 2 (PRINTER CPU)

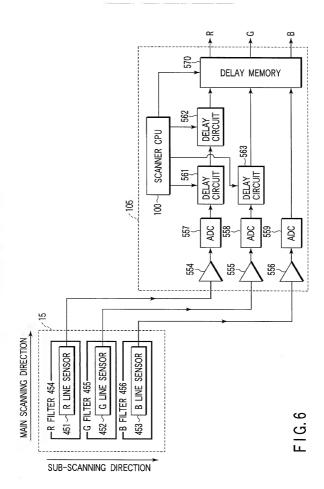
IMAGE SIGNAL

> MAIN CONTROL UNIT 30/ IMAGE PROCESSING SECTION 36 (MAIN CPU)

IMAGE SIGNAL

> SCANNER UNIT 1 (SCANNER CPU)





14

Title: IMAGE FORMING SYSTEM WITH SCANNER CAPABLE OF CHANGING MAGNIFICATION OF SCANNED IMAGE Inventor(s): Naoya MURAKAMI Appl. No.: 09/668,345

MAGNIFICATION 100% SCANNING SUB-SCANNING START SIGNAL (PVSYNC) (a) d100 Leanding Edge of Image IMAGE SIGNAL (b) GE OF PAPER I SHIFT TIMING OF MARGIN PVSYNC IN EADING EDGE IMAGE SIGNAL (c) ACCORDANCE WITH SCCANING MAGNIFICATION SUB-SCANNING VOID WIDTH VW1 WHEN DIRECTION SCANNING MAGNIFICATION IS 100% SCANNING MAGNIFICATION 400% (d) SUB-SCANNING START SIGNAL (PVSYNC) d400 LEANDING EDGE OF IMAGE IMAGE SIGNAL (e) AMOUNT OF EDGE OF PAPER IMAGE SIGNAL MARGIN SUPPLY TIMING (f) IMAGE SIGNAL CORRECTION LEADING VOID WIDTH VW4 = VW1 WHEN SCANNING MAGNIFICATION IS 400% (CONTROLLED BY THE INVENTION) LEADING EDGE OF PAPER MARGIN IMAGE SIGNAL (g) VOID WIDTH VW4\* ≠ VW1 WHEN SCANNING MAGNIFICATION IS 400%

FIG.7

(NOT CONTROLLED BY THE INVENTION)

SCANNING MAGNIFICATION 100% SUB-SCANNING START SIGNAL (PVSYNC) (a) d100 → Leanding Edge of Image (b) IMAGE SIGNAL LEADING EDGE OF PAPER MARGIN (c) IMAGE SIGNAL SUB-SCANNING VOID WIDTH VW1 WHEN DIRECTION SCANNING MAGNIFICATION IS 100% MAGNIFICATION 400% SCANNING (d) SUB-SCANNING START SIGNAL (PVSYNC) d400 LEANDING EDGE OF IMAGE IMAGE SIGNAL (e) LEADING EDGE OF PAPER MARGIN (f) IMAGE SIGNAL VOID WIDTH VW4\* ≠ VW1 WHEN SCANNING MAGNIFICATION IS 400% (NOT CONTROLLED BY THE INVENTION) SHIFT PAPER FEED TIMING IN ACCORDANCE WITH SCANNING MAGNIFICATION (DURING WHICH IMAGE AMOUNT OF SIGNAL IS KEPT IN MEMORY) PAPER FEED TIMING LEADING EDGE OF PAPER MARGIN CORRECTION (g) IMAGE SIGNAL VOID WIDTH VW4 = VW1 WHEN SCANNING MAGNIFICATION IS 400% (CONTROLLED BY THE INVENTION)

F I G. 8

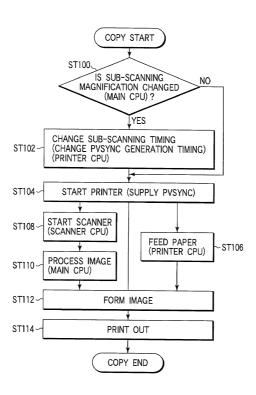


FIG. 9

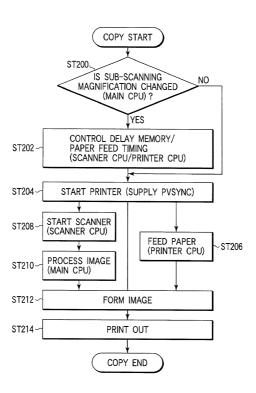


FIG. 10